War Veterans Public Day HBOT2016 New Orleans

Hyperbaric Oxygen Therapy for Brain and Spinal Injuries combined with Robotic Gait Assisted Walking (Lokomat).

Malcolm R. Hooper  Clinical Director - HyperMED | OXYMED Australia | OXYGEN100 – Heal The Warriors
Clinical Director & Researcher
HyperMED | OXYMED Australia | OXYGEN100 - Heal The Warriors | Clinical Director & Researcher
2007 – Present (9 years) | 643 Chapel Street South Yarra 3141
www.hypermed.com.au

HyperMED (Hooper) pioneered ‘off-label’ applications of Hyperbaric Oxygenation (HBO) in Australia in 1996. HyperMED installed the Australian first LOKOMAT (Adult and Pediatric Robotic Gait Assistance) in 2006. The combination effects of HBO & Lokomat being a ‘world first’.

The 'off-label' use of HBO and the use of LOKOMAT are viewed as 'novel and unique - not supported by the greater percentage of medical doctors in Australia' (AHPRA 2013).

Across Australia there are approximately 18-HBO chambers. In China there are in excess of 5000 HBO chambers. In USA, in excess of 1200 HBO facilities provide ‘off-label’ applications for chronic neurologic and other complex illness disorders.

There are in excess of 500-LOKOMATS worldwide and a growing market for personal exoskeletons assisting patient mobility and functionality. In Australia there are only 2-LOKOMATS.

HyperMED pioneering efforts contributed to LOKOMAT funding in South Australia (2013). The Women and Children’s Hospital (SA) is fund raising $4M to establish Australia’s leading robotic (LOKOMAT) rehabilitation research clinic. The Royal Melbourne Hospital (2014) is also fund raising for a LOKOMAT.

HBO (1.5-2.4 ATA using 100% O2) is safe and effective. HBO accelerates immune responses. HBO is non-invasive. HBO increases Oxygen tension into Hypoxic tissue inhibiting opportunistic infections and cellular mutations.

HBO Up~Regulates the patient own circulating Stem Cells {8-fold (800%) increase CD34+}; enhances Mitochondrial function; proliferates anti-inflammatory Cytokines (IL4, 10, 13, INFg, etc); proliferates VEGF, BDNF & GDNF; HBO reduces Telomeres degeneration ...

HBO Down~Regulates toxic intra and extra cellular inflammatory Cytokines (IL1, 2, 6, 7, 8), Tumour Necrosis Factor Alpha (TNFα), chronic opportunistic Anaerobic (MRSA, VRE) and co-infections (Viral, Bacterial, Parasitic), Cell Sepsis ...

HBO combined with TNF blockers promotes immune modulation.
Sports
Tennis Players Get an Oxygen Fix

To aid recovery, tennis pros in Melbourne rent hyperbaric chambers

BY TOM PERROTTA

Melbourne, Australia

AFTER HE WON a four-hour, 25-minute match at the Australian Open on Sunday, Novak Djokovic, the world’s best tennis player, showered, spoke to the media, and then hustled over to a quiet late-night spot that’s popular among several players: A small clinic two miles from the tournament that has four hyperbaric oxygen pods for rent.

The machines look like deep-sea diving submarines with glass windows and hatches in the back. Inside, players slip on a plastic breathing mask attached to a long tube. Once the hatch seals they’re off, compressor and regulator whirring and pressure building until they’re basically 40-feet under water and breathing 100% oxygen through the mask (outside air contains just 21% oxygen). Players have their own masks and tubes and don’t share them (that’s bad hygiene). They wear blue hospital gowns over their socks and must leave behind their phones, watches or anything with a battery that could spark a fire. Outside each pod front window is a television equipped with Netflix. American Bethanie Mattek-Sands biagged on episodes of “Making a Murderer” before leaving Melbourne on Thursday after losing in mixed doubles. Djokovic spent 10 hours in the pod after his five-setter against Gilles Simon on Sunday, from around 10 p.m. to 11 p.m. He’ll use it before matches too as he did for an hour Tuesday afternoon before playing Kei Nishikori later that evening. Djokovic watched M. Night Shaykmalan’s “The Last Airbender.” “I either like comedy or somebody calls it science fiction,” he said. “I call it the world we still didn’t experience.”

The pods are located at HyperMED, a ground-floor clinic nestled between a hair salon and a bakery about a 10-minute drive from the Open. A few hotels popular among players are nearby. Djokovic, known as one of the most meticulous players on the tour, has used the pods here for several years with the hope of aiding recovery and preventing injury. Mattek-Sands started last year. This year, doubles star Mike Bryan became a pod regular. His twin brother, Bob, tried it too, though just once. “It’s great,” Djokovic said. “It should get you out there more, not just for athletes.”

Mike Bryan said: “It just helps recovery. I feel a little better doing it.” Bryan also likes the VacaSport, a long tube with a skirt that seals a player’s legs in a vacuum and fluffs lactic acid. There is also a cryotherapy chamber, which cools to minus 150 degrees Fahrenheit for a few minutes. HyperMED’s website has a picture of Miles Simon, the Canadian star, standing in its chamber.

Oxygen sessions last anywhere from an hour to two hours and cost $150 Australian dollars (US$105).

Mattek-Sands said the benefits are subtle but valuable. “It’s not like you walk out of there feeling like Superman or anything,” she said. “You sleep pretty good that night, I’ll say that. You crash and you dream pretty heavy.”

The facility is run by Malcolm Hooper, a former chiropractor who sits in Djokovic’s box in Rod Laver Arena Thursday evening as the world No. 1 beat Roger Federer and earned a spot in Sunday’s Australian Open final, the sixth of his career. Hooper’s clients include people with cerebral palsy, traumatic brain injuries and disabilities, as well as other athletes. During the Open, he opens his clinic day and night depending on players’ needs. “Two, three in the morning, whatever the requirements are,” he said.

Top athletes around the world, including football, basketball and soccer stars, use hyperbaric oxygen therapy. Djokovic said he only uses hyperbaric pods in the U.S. and Australia, because access and regulations are challenging in Europe. He said there is still a stigma about oxygen therapy, that it gives athletes who use it an unfair advantage.

“It’s very sensitive, especially in the European part of the world,” he said. “I wish I can have this all over the place, I wish.”

Mattek-Sands said she would be thrilled if the sport’s major tournaments provided pods on site. “It’s just kind of the new wave for the future,” she said.

Hyperbaric therapy doesn’t suit everyone. Andy Murray has tried it and decided it isn’t for him, according to a representative. Some question its merits. A paper published last year in Peer, a peer-reviewed journal, found lower lung cancer incidence among people living at high elevations, which suggests oxygen deprivation may be a driver of cancer. Carmen Simeonov, an MD-PhD trainee at the University of Pennsylvania and co-author of the paper, wrote via email: “Basically, it’s exposing yourself to rashes with no logical reward.”

Hooper, who is an affiliate member of the International Hyperbaric Medical Association, said he has seen gains in his patients, and that research suggests hyperbaric treatment can help many ailments. “Every athlete has a growing list of injuries that may benefit,” he wrote in an email.

Hooper’s chiropractic license was suspended for two years in 2013 after a dispute with a former cerebral palsy patient in part over the effectiveness of treatment, though the Chiropractic Board of Australia viewed Hooper’s “conduct as an error of judgment rather than a defect in character,” and that he was a “true believer in the treatment that was being given.” (He said he hasn’t practiced as a chiropractor for 20 years and no longer has a need for the license.)

Hooper also was treating Ausie Rules football players in 2013 when they separately came under investigation for the possible use of banned substances. A Court of Arbitration for Sport panel that imposed a two-year ban on 24 players earlier this month made no mention of Hooper in its findings and didn’t assign him any fault. Hooper says he tells all his clients about his history. Justin Sands, the husband of Mattek-Sands, said Hooper has been open since they first met.

“Nothing has been anything but an outstanding, good guy,” Sands said.

Sands, who played college football in the U.S., said he used hyperbaric therapy in his playing days. He says he’s surprised so few tennis players use it, given the growing demands of the game. It might even be useful, he said, for the tour’s traveling husbands and wives, though for other reasons. “It’s great for a hangover,” he said.
From 2001 to 2009, the Army’s suicide rate increased more than 150% while orders for psychiatric drugs rose 76% over the same period. These soaring statistics cannot be attributed to the horrors of war, as 85% of military suicide victims had never even seen combat. This suggests that the PTSD diagnosis is being widely handed out to active-duty and vets to justify putting more and more of them on cocktails of prescribed mind-altering drugs from which they may never recover.
Hyperbaric Oxygenation & Lokomat (Robotic Assisted Walking) Impacts Chronic Spinal Cord Injury - Case Study IM
MRI (left) PRIOR to commencing at HyperMED dated 13-03-07

'Comparison is made with the last examination dated 10-10-05. Again demonstrating the enhancing intraspinal lesion posteriorly in the spinal canal at the level of T4-T6. It is again seen to measure 2.8cm cranio caudal and 1cm AP. The T2 imaging again shows cord atrophy with hydromyelia from T1 to at least the inferior border of the lesion'.

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Figure 4: HyperMED Spinal Cord Injured patient on Lokomat\textsuperscript{43}
Children with cerebral palsy have an acquired dysfunction which their central nervous system function deems normal. This is evident when CP children undertake an intensive Lokomat Gait Training protocol. Many of these children demonstrate a ‘normal gait’ whilst on the Lokomat which raises question of acquired neural pathways and motor function wrongly developed and reinforced over time. When these same children come off the Lokomat they immediately return back to the acquired gait. Intensity and repetition enables the CP child to generate a new functionality which resembles a ‘normal gait’. It is a frequent finding to observe the bewilderment of both parents and CP child when the child sees themselves ‘walking normal’ on the Lokomat. Visualization whilst on the Lokomat is an important paradigm shift for not only the CP child and parent but also the therapist.
Mobile Exoskeletons With Variable Assist
Australian War Veterans

OXYGEN100 for Traumatic Brain Injury, Shock Blast Injury, Post Traumatic Stress Disorder, Concussion Injury

Free Hyperbaric Oxygen Therapy for immediate returning Aussie War Veterans suffering the effects of TBI, Shock Blast, PTSD and Concussion Syndrome

OXYMED AUSTRALIA
HEAL THE WARRIORS
FREE HBO | OXYGEN100 for AUSSIE WAR VETS
HEAL THE WARRIORS

Traumatic Brain Injury (TBI) | Post-Concussion Syndrome (PCS)
Post-Traumatic Stress Disorder (PTSD)

Hyperbaric Oxygen Therapy - Fighting to treat the effects of TBI and PTSD
Faith In Your Values

'People are unreasonable, illogical and self-centred - Love them anyway.
If you do good, people will accuse you of being selfish or having ulterior motives - Do good anyway.

If you are successful, you will win false friends and true enemies - Succeed anyway.
Honesty and frankness make you vulnerable - Be honest anyway.
The good you do today will be forgotten tomorrow - Do it anyway.
The smallest people with the smallest brains will shoot down the biggest people with the biggest ideas - Think big anyway.

People favor underdogs but follow only top dogs - Fight for some underdogs anyway.
What you spend years building may be destroyed overnight - Build anyway.
Give the world the best you've got and you will probably get kicked in the teeth - Give the world your best anyway.

You see, it’s not the score that somebody else keeps on your life that counts in the end, it's the score you keep on your life that makes the difference.
Have faith in your Values!' (Author - unknown)